IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Roland KELLNER et al.

GAU:

1657

SERIAL NO:

10/501.077

EXAMINER: MARTIN, Paul C.

FILING VORTE:

JULY 9, 2004 ANOSPHOAMIDASE ASSAY

MAY 0.2 2007

AMENDMENT TRANSMITTAL

Imissioner for P.O. BOMADEM

Alexandria, VA 22313-1450

SIR:

Transmitted herewith is an amendment in the above-identified application.

No additional fee is required.

Applicant(s) is/are entitled to small entity status. . \square

 \boxtimes Additional documents filed herewith: Reply

The fee has been calculated below:

CLAIMS	CLAIMS REMAINING		HIGHEST NO. PREVIOUSLY PAID	NO. OF EXTRA CLAIMS	RATE		CALCULATIONS
			FOR				
TOTAL	18	MINUS	20	0	Х	\$50 =	\$0.00
INDEPENDENT	5	MINUS	4	1	х	\$200 =	\$200.00
44	☐ PETITION FOR EXTENSION OF TIME						\$0.00
	TOTAL OF ABOVE CALCULATION REDUCTION BY 50% FOR FILING BY SMALL ENTITY						\$200.00
							\$0.00
	☐ RECORDATION OF ASSIGNMENT + \$40 =						\$0.00
-						TOTAL	200.00

- \boxtimes A check in the amount of \$200.00 is attached.
- \boxtimes Please charge any additional fees for the papers being filed herewith and for which no check is enclosed herewith, or credit any overpayment to Deposit Account No. 13-3402. A duplicate copy of this sheet is enclosed.
- If these papers are not considered timely filed by the Patent and Trademark Office, then a petition is hereby made under \hat{A} 37 C.F.R. § 1.136, and any additional fees required under 37 C.F.R. § 1.36 for any necessary extension of time may be charged to Deposit Account No. 13-3402. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

05/08/2007 JBALINAN 00000089 10501077

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200.00 OP

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CERTIFICATE OF MAILING

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Roland KELLNER et al.

Examiner: MARTIN, Paul C.

Serial No.: 10/501,077

Group Art Unit: 1657

Filed: JULY 9, 2004

Title: PHOSPHOAMIDASE ASSAY

REPLY

MAIL STOP AMENDMENT Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

In response to the Office Action mailed on January 31, 2007, please amend the claims as follows and consider the remarks.

Amendments to the Claims are reflected in the listing of claims which begins on page 3 of this paper.

Remarks/Arguments begin on page 6 of this paper.

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the U.S. Postal Services as First Class Mail in an envelope addressed to: Commissioner of Patents, P.O. Box 1450, Alexandria, VA 22313-

Name:

Signature: _

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims: Please <u>amend</u> the claims as follows:

We claim:

Claim 1. (Currently Amended) A method for the detection, characterization and qualitative and/or quantitative determination of the activity of a phosphoamidase <u>enzyme</u>, comprising hydrolyzing a phospho-ester bond (P-O) of at least one of the substrates selected from the group consisting of <u>which is FDP</u> (fluorescein diphosphate), DDAO (9H-(1,3-dichloro-9,9-dimethyl-acridin-2-one-7-yl)phosphate), DiFMUP (6,8-difluoro-4-methylum-belliferyl phosphate), ELF®39 phosphate (2-(2´-phosphophenyl)-4-(3H)-quinazolinone) and or ELF®97 phosphate (2-(5´-chloro-2´-phosphophenyl)-6-chloro-4-(3H)-quinazolinone) and correlating the resultant hydrolysis level with the phosphoamidase activity of said enzyme.

Claim 2. (Previously Presented) A method of claim 1 wherein the phosphoamidase is a protein phospho-amidase.

Claim 3. (Previously Presented) A method of claim 2 wherein the protein phosphoamidase is a protein histidine phosphoamidase (PHP).

Claim 4. (Previously Presented) A method of claim 3 wherein the protein histidine phosphoamidase is PHP1.

Claim 5. (Currently Amended) A method for the identification of an inhibitor or activator of a phosphoamidase comprising the steps:

- a) establishing a sample comprising a phosphoamidase and a test substance,
- b) administering a substrate selected from the group consisting of FDP, DDAO, DiFMUP, ELF®39 phosphate and ELF®97 phosphate to the sample,
- c) detecting the signal produced by the hydrolysis of the phospho-ester bond (P-O) of the substrate, and